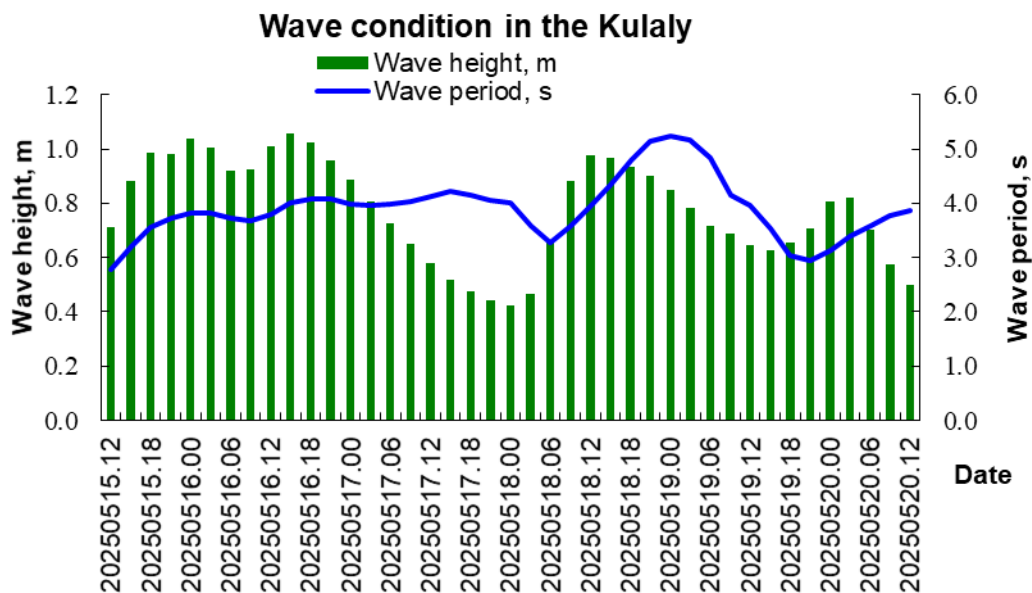
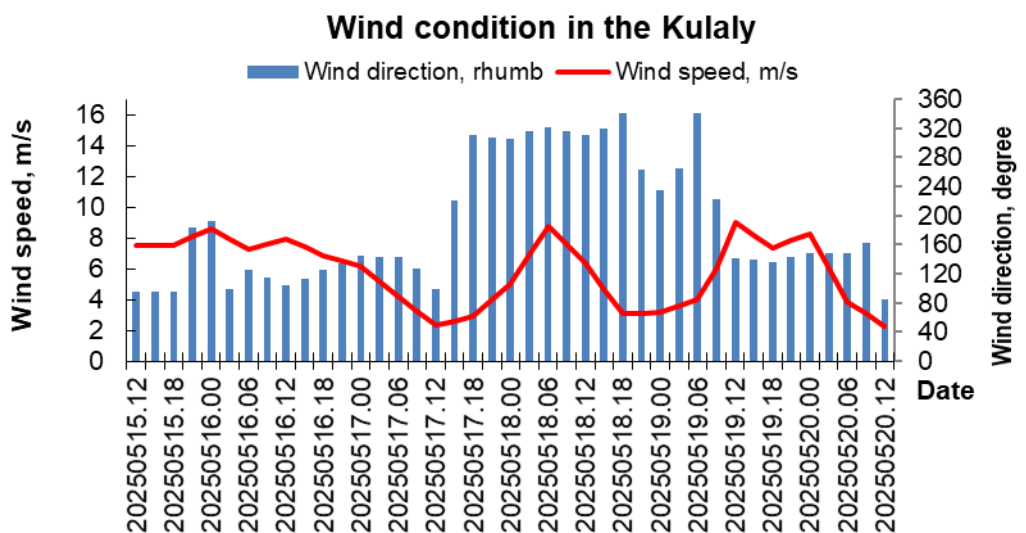




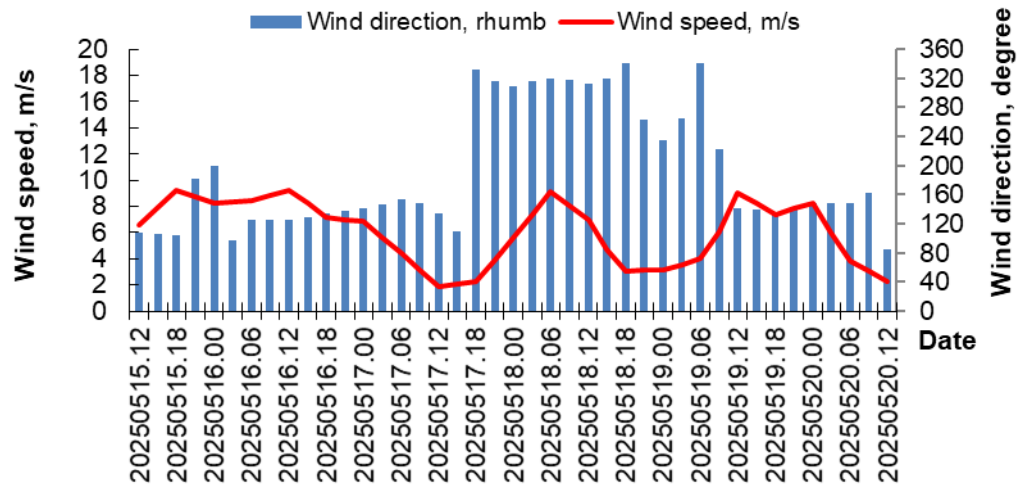
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period May 15 - 20, 2025.**

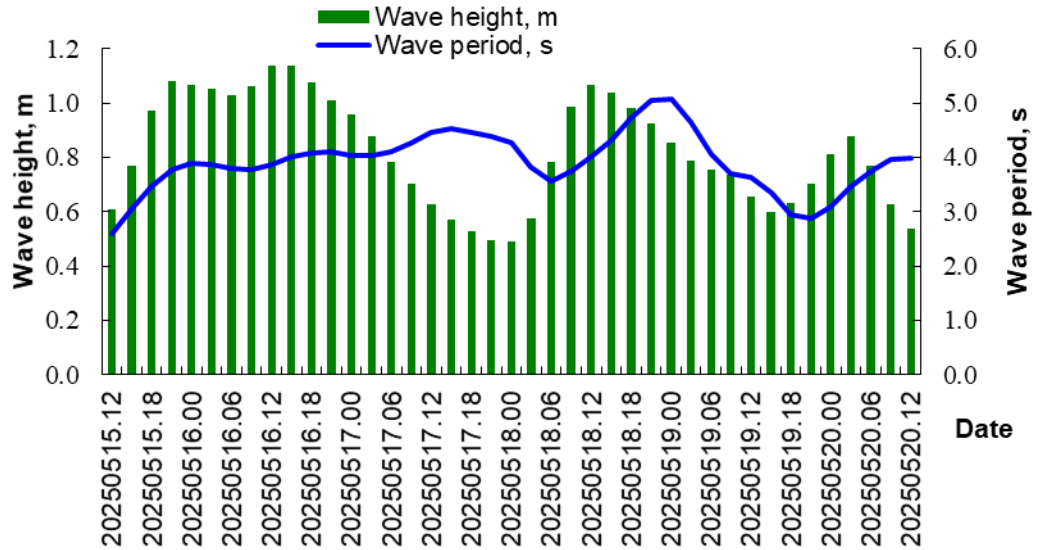


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.71	W	2.8	7	E
20250515.15	0.88	W	3.2	8	E
20250515.18	0.99	W	3.6	8	E
20250515.21	0.98	W	3.7	8	S
20250516.00	1.04	W	3.8	9	S
20250516.03	1.01	W	3.8	8	E
20250516.06	0.92	W	3.7	7	SE
20250516.09	0.92	W	3.7	8	SE
20250516.12	1.01	W	3.8	8	E
20250516.15	1.06	W	4.0	7	SE
20250516.18	1.03	W	4.1	7	SE
20250516.21	0.96	W	4.1	6	SE
20250517.00	0.89	W	4.0	6	SE
20250517.03	0.81	W	4.0	5	SE
20250517.06	0.73	W	4.0	4	SE
20250517.09	0.65	W	4.0	3	SE
20250517.12	0.58	W	4.1	2	E
20250517.15	0.52	W	4.2	3	SW
20250517.18	0.47	W	4.1	3	NW
20250517.21	0.44	SW	4.1	4	NW
20250518.00	0.42	SW	4.0	5	NW
20250518.03	0.47	SE	3.6	7	NW
20250518.06	0.66	E	3.3	9	NW
20250518.09	0.88	E	3.6	8	NW
20250518.12	0.98	E	3.9	6	NW
20250518.15	0.97	E	4.3	5	NW
20250518.18	0.93	E	4.8	3	N
20250518.21	0.90	E	5.1	3	W
20250519.00	0.85	E	5.2	3	SW
20250519.03	0.78	E	5.2	4	W
20250519.06	0.72	E	4.8	4	N
20250519.09	0.69	E	4.1	6	SW
20250519.12	0.64	E	4.0	9	SE
20250519.15	0.63	E	3.5	8	SE
20250519.18	0.66	E	3.0	7	SE
20250519.21	0.71	NW	3.0	8	SE
20250520.00	0.81	NW	3.1	8	SE
20250520.03	0.82	NW	3.4	6	SE
20250520.06	0.70	NW	3.6	4	SE
20250520.09	0.57	NW	3.8	3	S
20250520.12	0.50	NW	3.9	2	E

Wind condition in the Fort-Shevchenko

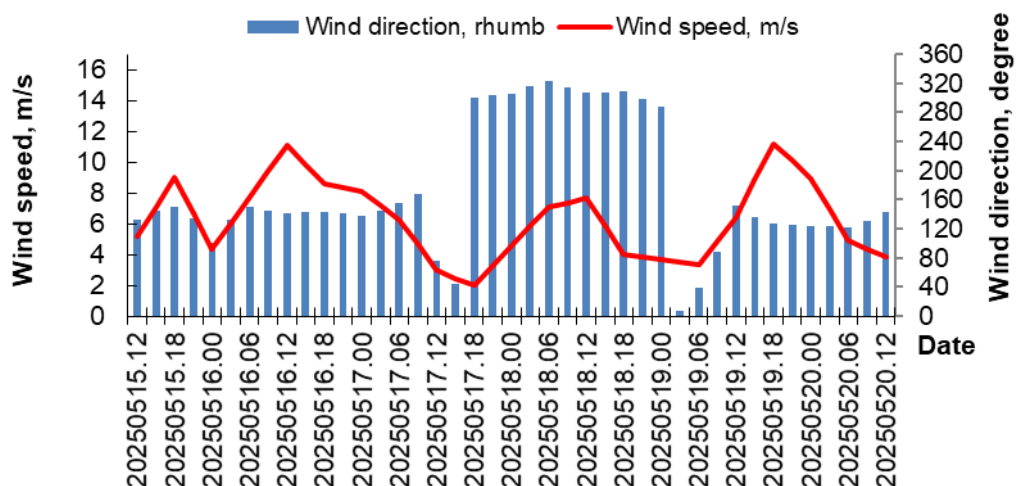


Wave condition in the Fort-Shevchenko

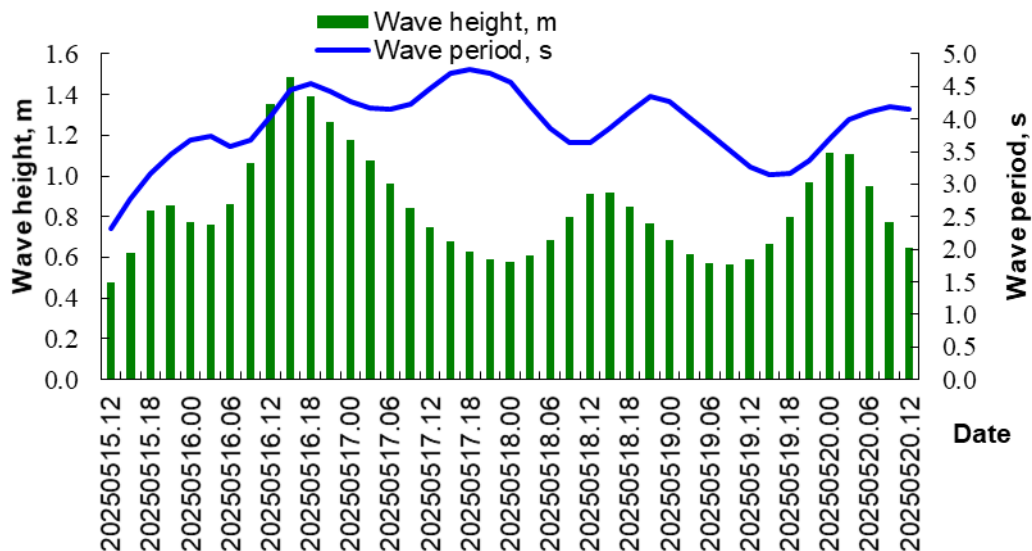


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.61	W	2.6	7	E
20250515.15	0.77	W	3.1	8	E
20250515.18	0.97	W	3.5	9	E
20250515.21	1.08	W	3.8	9	S
20250516.00	1.07	W	3.9	8	S
20250516.03	1.05	W	3.9	8	E
20250516.06	1.03	W	3.8	8	SE
20250516.09	1.06	W	3.8	9	SE
20250516.12	1.14	W	3.9	9	SE
20250516.15	1.14	W	4.0	8	SE
20250516.18	1.08	W	4.1	7	SE
20250516.21	1.01	W	4.1	7	SE
20250517.00	0.96	W	4.0	7	SE
20250517.03	0.88	W	4.0	6	SE
20250517.06	0.78	W	4.1	4	SE
20250517.09	0.70	W	4.3	3	SE
20250517.12	0.63	W	4.5	2	SE
20250517.15	0.57	W	4.5	2	E
20250517.18	0.53	W	4.5	2	NW
20250517.21	0.49	W	4.4	4	NW
20250518.00	0.49	SW	4.3	6	NW
20250518.03	0.57	E	3.8	7	NW
20250518.06	0.78	E	3.6	9	NW
20250518.09	0.99	E	3.7	8	NW
20250518.12	1.07	E	4.0	7	NW
20250518.15	1.04	E	4.3	5	NW
20250518.18	0.98	E	4.7	3	N
20250518.21	0.92	E	5.0	3	W
20250519.00	0.85	E	5.1	3	SW
20250519.03	0.79	E	4.6	4	W
20250519.06	0.75	E	4.1	4	N
20250519.09	0.74	E	3.7	6	SW
20250519.12	0.65	E	3.6	9	SE
20250519.15	0.60	E	3.4	8	SE
20250519.18	0.63	NE	2.9	7	SE
20250519.21	0.70	N	2.9	8	SE
20250520.00	0.81	NW	3.1	8	SE
20250520.03	0.88	NW	3.5	6	SE
20250520.06	0.77	NW	3.7	4	SE
20250520.09	0.63	NW	4.0	3	S
20250520.12	0.54	NW	4.0	2	E

Wind condition in the Aktau

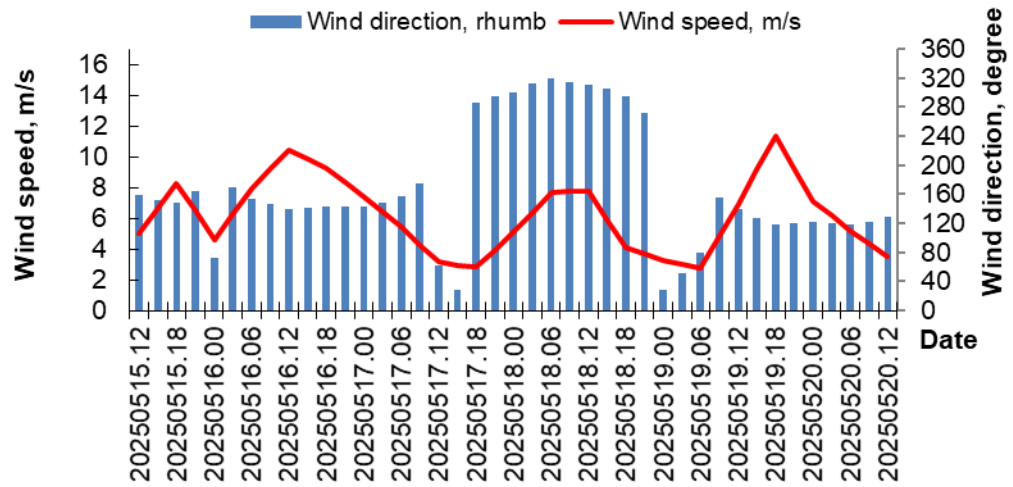


Wave condition in the Aktau

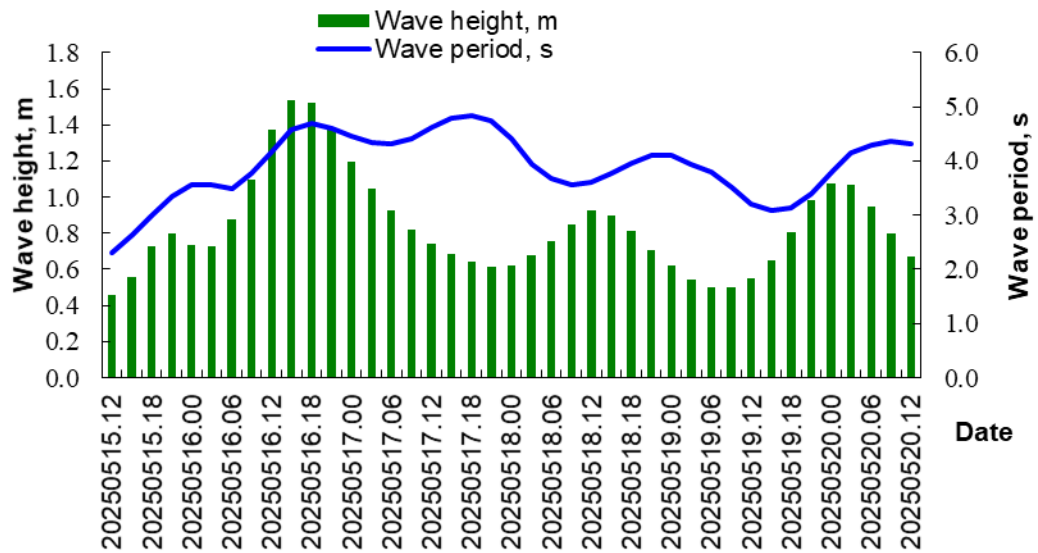


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250515.12	0.47	NW	2.3	5	SE
20250515.15	0.63	NW	2.8	7	SE
20250515.18	0.83	NW	3.2	9	SE
20250515.21	0.86	NW	3.5	7	SE
20250516.00	0.78	NW	3.7	4	E
20250516.03	0.76	W	3.7	6	SE
20250516.06	0.86	NW	3.6	8	SE
20250516.09	1.07	NW	3.7	9	SE
20250516.12	1.35	NW	4.1	11	SE
20250516.15	1.49	NW	4.4	10	SE
20250516.18	1.39	NW	4.5	9	SE
20250516.21	1.27	NW	4.4	8	SE
20250517.00	1.18	NW	4.3	8	SE
20250517.03	1.08	NW	4.2	7	SE
20250517.06	0.96	NW	4.1	6	SE
20250517.09	0.84	NW	4.2	5	S
20250517.12	0.75	W	4.5	3	E
20250517.15	0.68	W	4.7	2	NE
20250517.18	0.63	W	4.8	2	NW
20250517.21	0.59	W	4.7	3	NW
20250518.00	0.58	W	4.6	5	NW
20250518.03	0.61	N	4.2	6	NW
20250518.06	0.69	NE	3.8	7	NW
20250518.09	0.80	E	3.6	7	NW
20250518.12	0.91	E	3.6	8	NW
20250518.15	0.92	E	3.9	6	NW
20250518.18	0.85	E	4.1	4	NW
20250518.21	0.77	E	4.3	4	NW
20250519.00	0.69	E	4.3	4	W
20250519.03	0.62	E	4.0	3	N
20250519.06	0.57	E	3.8	3	NE
20250519.09	0.56	E	3.5	5	E
20250519.12	0.59	E	3.3	6	SE
20250519.15	0.67	NE	3.1	9	SE
20250519.18	0.80	N	3.2	11	SE
20250519.21	0.97	NW	3.4	10	SE
20250520.00	1.11	NW	3.7	9	SE
20250520.03	1.11	NW	4.0	7	SE
20250520.06	0.95	NW	4.1	5	SE
20250520.09	0.77	NW	4.2	4	SE
20250520.12	0.65	NW	4.2	4	SE

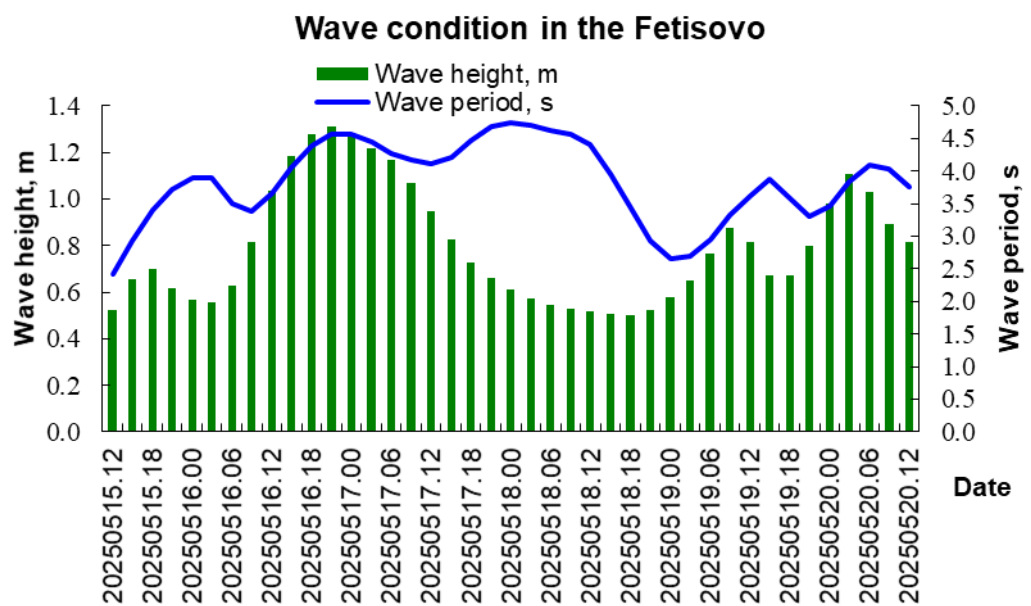
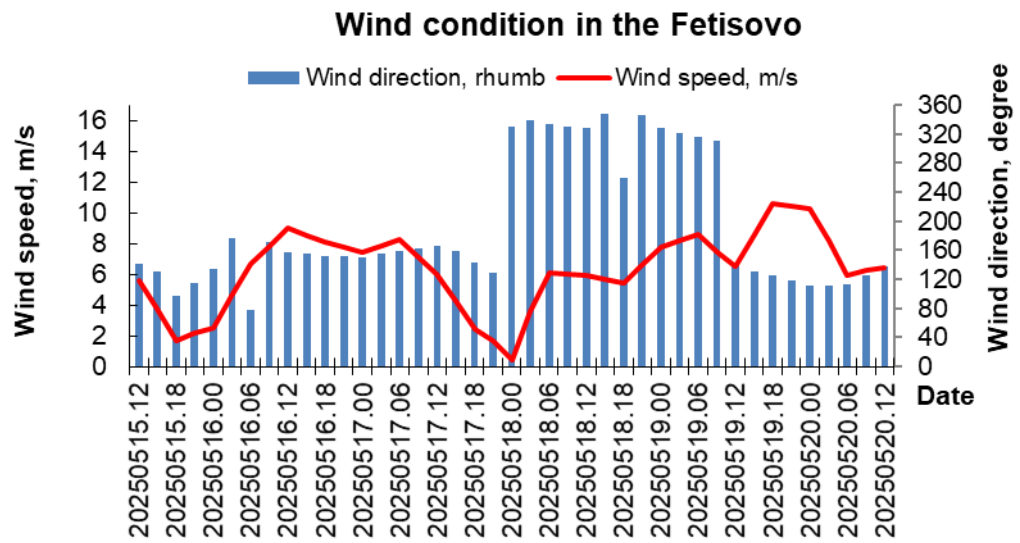
Wind condition in the Peschanyi



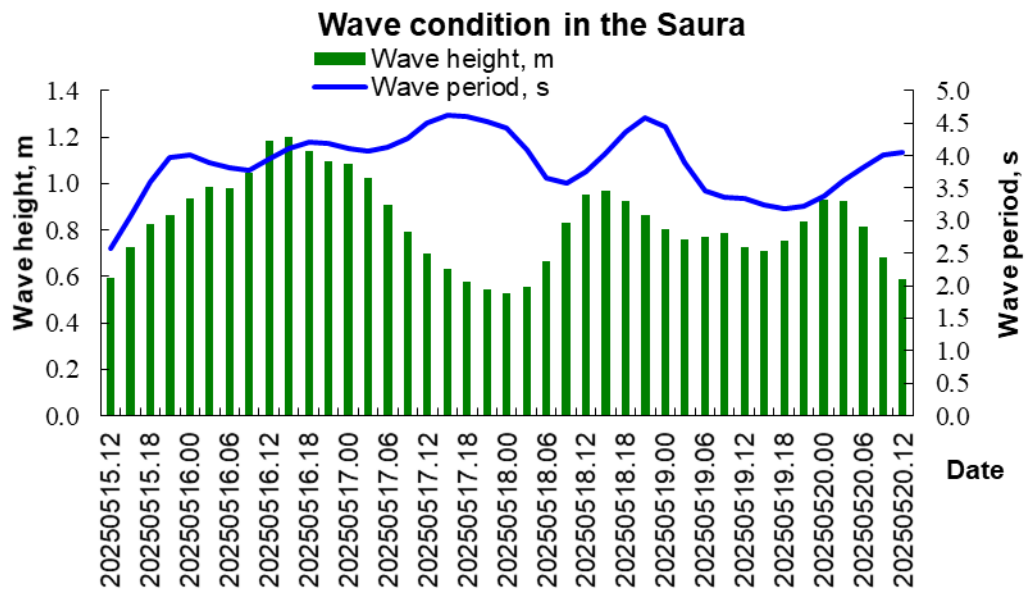
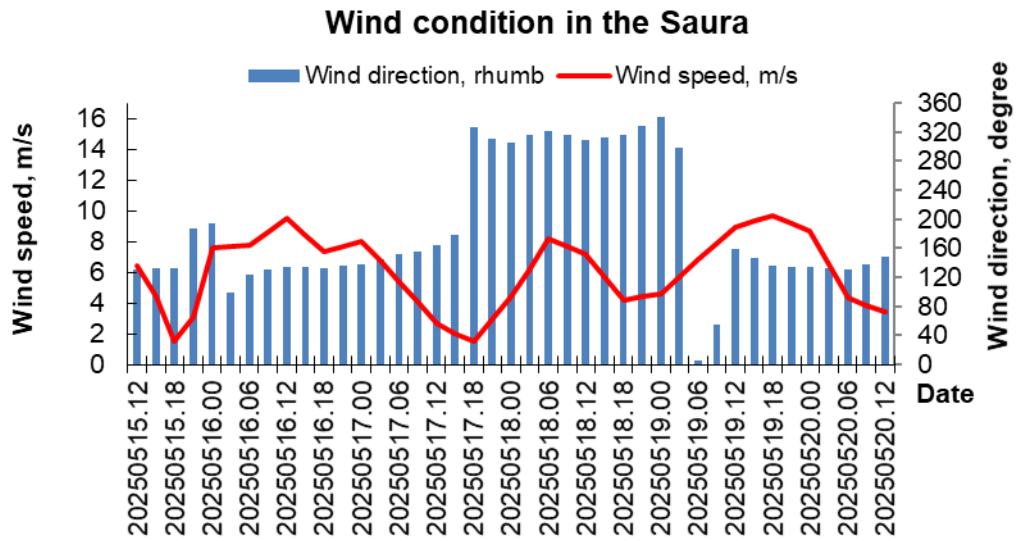
Wave condition in the Peschanyi



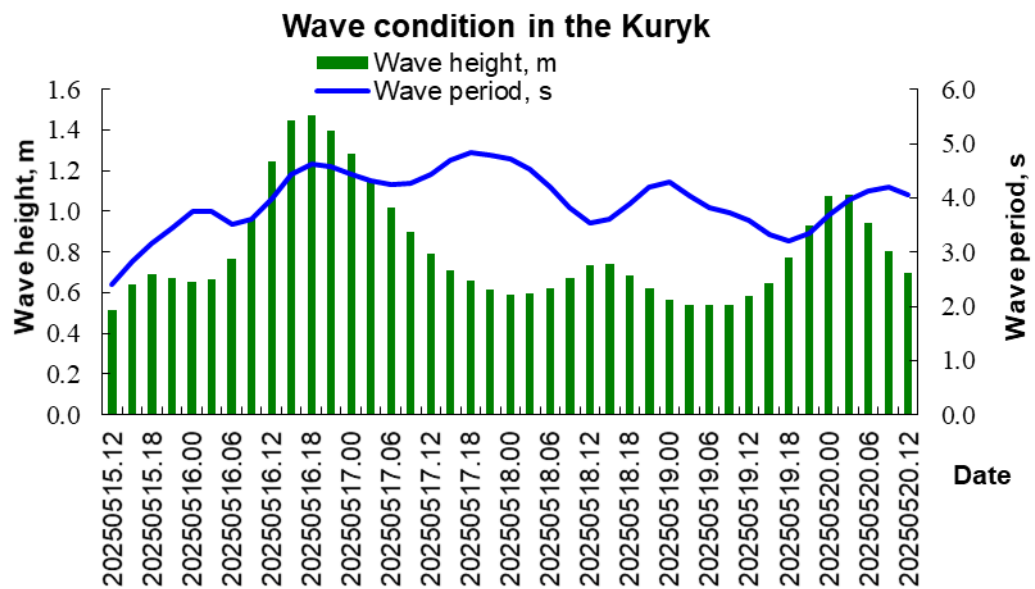
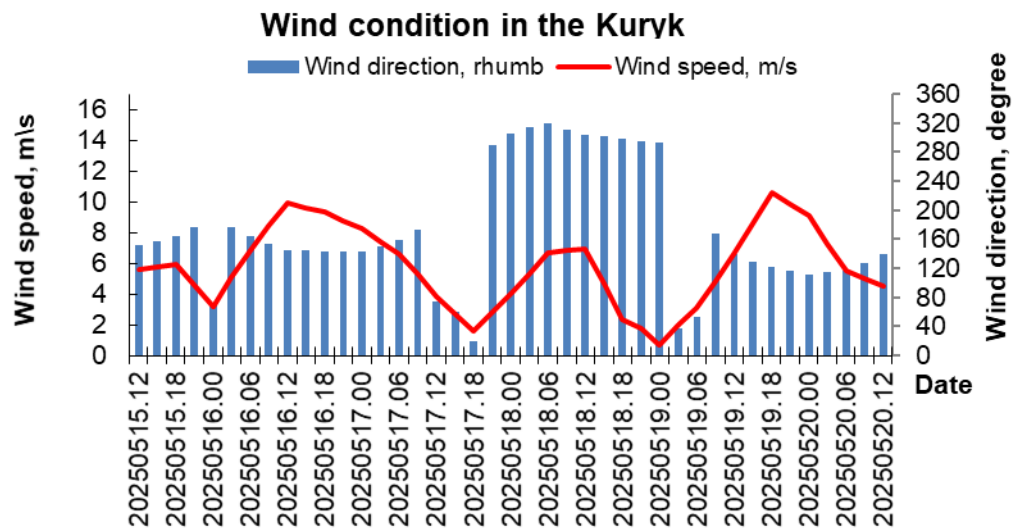
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.46	N	2.3	5	S
20250515.15	0.55	NW	2.6	7	SE
20250515.18	0.73	NW	3.0	8	SE
20250515.21	0.80	NW	3.4	6	S
20250516.00	0.73	NW	3.6	5	E
20250516.03	0.73	NW	3.6	6	S
20250516.06	0.87	NW	3.5	8	SE
20250516.09	1.10	NW	3.8	9	SE
20250516.12	1.38	NW	4.2	10	SE
20250516.15	1.54	NW	4.6	10	SE
20250516.18	1.52	NW	4.7	9	SE
20250516.21	1.37	NW	4.6	8	SE
20250517.00	1.19	NW	4.5	7	SE
20250517.03	1.05	NW	4.3	6	SE
20250517.06	0.92	NW	4.3	5	SE
20250517.09	0.82	NW	4.4	4	S
20250517.12	0.74	W	4.6	3	NE
20250517.15	0.68	W	4.8	3	NE
20250517.18	0.64	W	4.8	3	W
20250517.21	0.61	W	4.8	4	NW
20250518.00	0.62	NW	4.4	5	NW
20250518.03	0.68	NE	3.9	6	NW
20250518.06	0.76	NE	3.7	8	NW
20250518.09	0.85	E	3.6	8	NW
20250518.12	0.93	E	3.6	8	NW
20250518.15	0.90	E	3.8	6	NW
20250518.18	0.81	E	4.0	4	NW
20250518.21	0.71	E	4.1	4	W
20250519.00	0.62	E	4.1	3	NE
20250519.03	0.55	E	3.9	3	NE
20250519.06	0.50	E	3.8	3	E
20250519.09	0.50	E	3.5	5	SE
20250519.12	0.55	E	3.2	7	SE
20250519.15	0.65	NE	3.1	9	SE
20250519.18	0.81	NW	3.1	11	SE
20250519.21	0.98	NW	3.4	9	SE
20250520.00	1.07	NW	3.8	7	SE
20250520.03	1.07	NW	4.2	6	SE
20250520.06	0.95	NW	4.3	5	SE
20250520.09	0.80	NW	4.4	4	SE
20250520.12	0.67	NW	4.3	4	SE



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.52	NW	2.4	6	SE
20250515.15	0.65	NW	2.9	4	SE
20250515.18	0.70	NW	3.4	2	E
20250515.21	0.62	NW	3.7	2	SE
20250516.00	0.57	NW	3.9	3	SE
20250516.03	0.56	NW	3.9	5	S
20250516.06	0.63	NW	3.5	7	E
20250516.09	0.82	NW	3.4	8	S
20250516.12	1.04	NW	3.7	9	SE
20250516.15	1.18	NW	4.1	9	SE
20250516.18	1.28	NW	4.4	8	SE
20250516.21	1.31	NW	4.6	8	SE
20250517.00	1.27	NW	4.6	7	SE
20250517.03	1.22	NW	4.4	8	SE
20250517.06	1.17	NW	4.3	8	S
20250517.09	1.07	NW	4.2	7	S
20250517.12	0.95	NW	4.1	6	S
20250517.15	0.82	NW	4.2	4	S
20250517.18	0.73	NW	4.5	2	SE
20250517.21	0.66	NW	4.7	2	SE
20250518.00	0.61	NW	4.7	0	NW
20250518.03	0.57	NW	4.7	4	N
20250518.06	0.55	NW	4.6	6	NW
20250518.09	0.53	NW	4.6	6	NW
20250518.12	0.52	NW	4.4	6	NW
20250518.15	0.51	NW	4.0	6	N
20250518.18	0.50	N	3.5	5	W
20250518.21	0.52	NE	2.9	7	N
20250519.00	0.58	SE	2.7	8	NW
20250519.03	0.65	SE	2.7	8	NW
20250519.06	0.76	SE	2.9	9	NW
20250519.09	0.87	SE	3.3	7	NW
20250519.12	0.81	SE	3.6	7	SE
20250519.15	0.67	SE	3.9	9	SE
20250519.18	0.67	SE	3.6	11	SE
20250519.21	0.80	NW	3.3	10	SE
20250520.00	0.98	NW	3.5	10	E
20250520.03	1.11	NW	3.8	8	E
20250520.06	1.03	NW	4.1	6	SE
20250520.09	0.89	NW	4.0	6	SE
20250520.12	0.81	NW	3.8	6	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.60	NW	2.6	6	SE
20250515.15	0.73	NW	3.1	4	SE
20250515.18	0.82	NW	3.6	1	SE
20250515.21	0.87	W	4.0	3	S
20250516.00	0.94	W	4.0	8	S
20250516.03	0.98	W	3.9	8	E
20250516.06	0.98	W	3.8	8	SE
20250516.09	1.05	W	3.8	9	SE
20250516.12	1.18	NW	3.9	10	SE
20250516.15	1.20	NW	4.1	8	SE
20250516.18	1.14	NW	4.2	7	SE
20250516.21	1.09	NW	4.2	8	SE
20250517.00	1.09	NW	4.1	8	SE
20250517.03	1.03	NW	4.1	7	SE
20250517.06	0.91	W	4.1	5	SE
20250517.09	0.79	W	4.3	4	SE
20250517.12	0.70	W	4.5	3	S
20250517.15	0.63	W	4.6	2	S
20250517.18	0.58	W	4.6	1	NW
20250517.21	0.54	W	4.5	3	NW
20250518.00	0.53	W	4.4	4	NW
20250518.03	0.56	NE	4.1	6	NW
20250518.06	0.67	E	3.7	8	NW
20250518.09	0.83	E	3.6	8	NW
20250518.12	0.95	E	3.8	7	NW
20250518.15	0.97	E	4.0	6	NW
20250518.18	0.92	E	4.4	4	NW
20250518.21	0.86	E	4.6	4	NW
20250519.00	0.80	E	4.4	5	N
20250519.03	0.76	E	3.9	6	NW
20250519.06	0.77	E	3.5	7	N
20250519.09	0.79	E	3.4	8	NE
20250519.12	0.72	E	3.3	9	S
20250519.15	0.71	NE	3.2	9	SE
20250519.18	0.75	N	3.2	10	SE
20250519.21	0.84	N	3.2	9	SE
20250520.00	0.93	NW	3.4	9	SE
20250520.03	0.92	NW	3.6	7	SE
20250520.06	0.81	NW	3.8	4	SE
20250520.09	0.68	NW	4.0	4	SE
20250520.12	0.59	NW	4.0	3	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250515.12	0.52	NW	2.4	6	SE
20250515.15	0.64	NW	2.8	6	S
20250515.18	0.69	NW	3.2	6	S
20250515.21	0.67	NW	3.4	5	S
20250516.00	0.65	NW	3.8	3	E
20250516.03	0.66	NW	3.7	5	S
20250516.06	0.77	NW	3.5	7	S
20250516.09	0.97	NW	3.6	8	SE
20250516.12	1.25	NW	4.0	10	SE
20250516.15	1.44	NW	4.4	10	SE
20250516.18	1.47	NW	4.6	9	SE
20250516.21	1.40	NW	4.6	9	SE
20250517.00	1.28	NW	4.4	8	SE
20250517.03	1.15	NW	4.3	7	SE
20250517.06	1.02	NW	4.2	7	S
20250517.09	0.90	NW	4.3	5	S
20250517.12	0.79	NW	4.4	4	E
20250517.15	0.71	W	4.7	3	NE
20250517.18	0.66	W	4.8	2	N
20250517.21	0.62	W	4.8	3	W
20250518.00	0.59	W	4.7	4	NW
20250518.03	0.60	NW	4.5	5	NW
20250518.06	0.62	N	4.2	7	NW
20250518.09	0.67	NE	3.8	7	NW
20250518.12	0.74	NE	3.5	7	NW
20250518.15	0.74	E	3.6	5	NW
20250518.18	0.68	NE	3.9	2	NW
20250518.21	0.62	NE	4.2	2	NW
20250519.00	0.56	NE	4.3	1	NW
20250519.03	0.54	E	4.0	2	NE
20250519.06	0.54	E	3.8	3	NE
20250519.09	0.54	E	3.7	5	S
20250519.12	0.59	SE	3.6	7	SE
20250519.15	0.65	SE	3.3	9	SE
20250519.18	0.77	N	3.2	11	SE
20250519.21	0.93	NW	3.4	10	SE
20250520.00	1.08	NW	3.7	9	E
20250520.03	1.08	NW	4.0	7	SE
20250520.06	0.95	NW	4.1	6	SE
20250520.09	0.80	NW	4.2	5	SE
20250520.12	0.70	NW	4.1	5	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

Compiled by: Bazarbay L.B.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

Phone. (717)2 79 83 12; E-mail: ugmikm@meteo.kz